

NATIONAL INSTITUTES OF HEALTH
WARREN GRANT MAGNUSON CLINICAL CENTER
NURSING and PATIENT CARE SERVICES

Procedure: Application of a Non-sterile Collection Device to Collect a Timed Urine Specimen
from a Non-Toilet Trained Infant or Toddler

Approved:

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Title: Application of a Non-sterile Collection Device to Collect a Timed Urine Specimen from a Non-Toilet Trained Infant or Toddler

A. Equipment List

Equipment:

- soap, water, towel
- skin prep
- skin adhesive (e.g. Duoderm, HyTape)
- scissors
- adult urine stoma bag, disposable
- 60 cc catheter tip syringe

Optional:

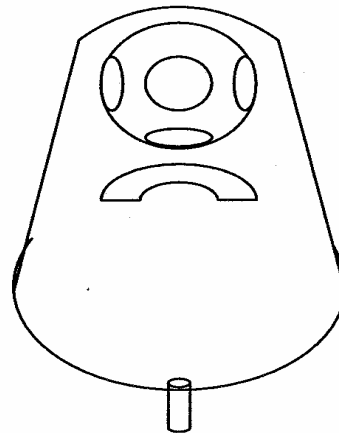
- surgical connecting tubing, 120 in.
- straight connector (5 in 1)
- urinal
- tape
- large container of ice

B.

STEPS

1. Using scissors, enlarge hole in adhesive collar of the urine stoma bag not cutting beyond the outermost ring. Modify shape of round adhesive collar to resemble a butterfly with the wings spread.

KEY POINTS



2. Take cap off 60 cc catheter tip syringe, pull up air to 60 cc mark. Open cap of stoma bag, connect syringe and push in air. Remove syringe and close cap quickly.
3. Thoroughly clean and dry perineum, buttocks, and inner thighs
3. Only apply stoma bag to intact skin.
4. Position child with legs spread apart (frog leg) and the maximum amount of perineum visible.
5. Apply skin prep and/or skin adhesive on the skin of the perineum and/or scrotum where the adhesive collar will be placed.
6. Fold the adhesive collar of the urine stoma bag in half with the adhesive side on the outside.
7. Holding the stoma bag with the bag portion downward, remove the larger part of the protective paper.

8. Attach the bottom portion of the adhesive collar as flat as possible against the skin between the vaginal opening and the anus in a female, and against the scrotum at the base of the penis in a male.
9. Smooth adhesive collar against skin of perineum/inner thigh working from the bottom to top, removing rest of protective paper.
10. Flatten bottom of stoma bag with one hand on top and one on bottom to move air to the top of bag, slightly separating top of bag from the skin. Repeat step 2. if necessary.
10. Separating front of bag from skin keeps skin intact and improves urine flow into bag.
11. Cut slit in diaper and pull about one third of bag through diaper.
12. Using outlet cap of urine stoma bag, empty bag as often as urine appears.

C. Optional overnight collection method:

STEPS

KEY POINTS

1. Remove cap of outlet tube, insert one end of straight connector, and attach one end of surgical connecting tubing to the other end of the connector. Tape connections.
2. Tape opposite end of connecting tubing inside a urinal which has been placed in a container of ice.

D. Removal

STEPS

KEY POINTS

1. If possible, allow child to sit in bathtub of warm water until adhesive softens and bag becomes separated from skin.
2. Alternatively, loosen adhesive bond with adhesive remover pads and remove.
3. Wash and dry perineum thoroughly.

E. References:

1. Spier & Swann. 1993. Addison-Wesley Manual of Pediatric Nursing Procedures. Addison-Wesley, Redwood City, CA.
2. Wong & Whaley. 2000. Clinical Manual of Pediatric Nursing. 5rd Ed. The C.V. Mosley Company, Baltimore, MD.